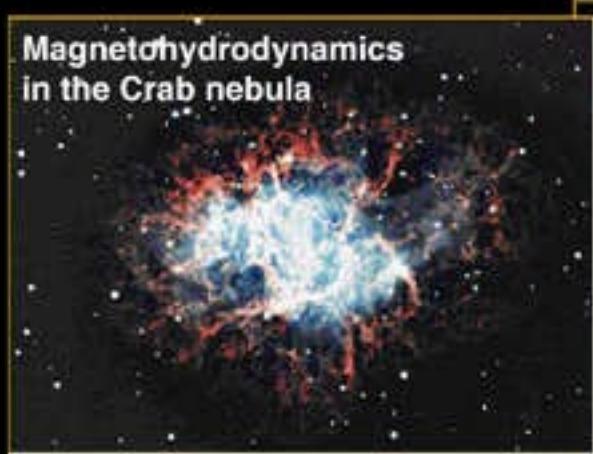
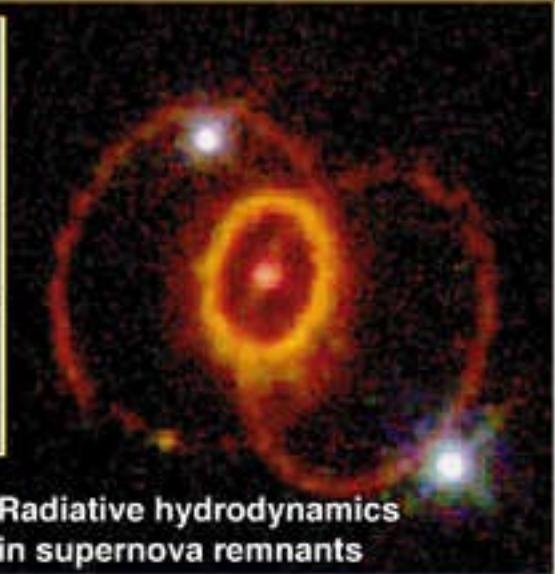


Relativistic plasmas in
black hole accretion disks



Magnetohydrodynamics
in the Crab nebula

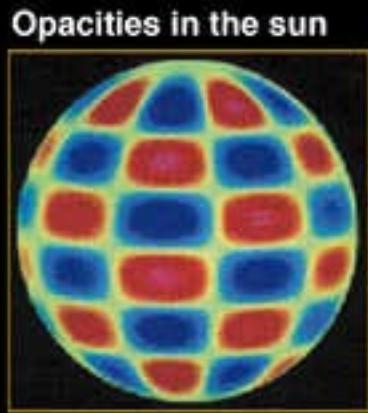


Radiative hydrodynamics
in supernova remnants

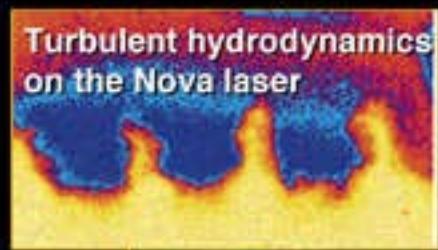


Radiation flow
in Eta Carinae

*Astrophysics-relevant
experiments are being
developed on
intense lasers*



Opacities in the sun



Turbulent hydrodynamics
on the Nova laser



Hydrodynamic jets, Herbig-Haro 47

Strongly coupled plasmas
in Jupiter, brown dwarfs

